Vessel Operating Units Compilation Protocol Spring 2013

Introduction

The Operating Units Survey is an "annual" survey of the active vessel participants in the fisheries. It should be noted that actual participation, as opposed to simply being licensed or permitted, is the operative criteria for both parts of the operating units survey.

Annually, port agents will be provided with a single file that attempts to list all vessels participating in commercial fishing in your area during the year. While the process of creation of these initial lists varies somewhat depending upon the data source, in general a list of distinct vessel ID/Gear/State/County units along with certain gear characteristics is pulled from State Landings data (e.g. trip tickets) and merged with information from the United States Coast Guard regarding vessel physical characteristics. Included in the operating characteristics information are: number of full time crew, type of gear, number and quantity of gear, and the state and county in which the vessel operated during the year. The USCG physical characteristics include the type of hull construction, the gross tonnage, the overall length of the hull (in feet), the horsepower of the engine, and the year in which the vessel was built.

You will receive a file and a due date. The file type will again vary depending on the data source, but is generally either an Excel spreadsheet or a FoxPro dbf file. The column names may also vary but in general will consist of the following columns:

Column Name	Column Description		
VESSELNAME	The name of the vessel.		
STATE_REG_NUMBER	State Registration Number		
VESSELNUM	USCG Official number		
GROSSTONS	The registered gross tonnage of the vessel.		
VESSELLEN	The length of the vessel in feet.		
FTCREW	The number of crew members.		
TYPEOFCONS	Type of construction of the hull		
GEAR	The NMFS gear code for the gear that was fished by this vessel in		
	this state and county.		
GEAR DESCRIPTION	Description of the gear that was fished by this vessel in this state		
	and county.		
GEARNUM	The greatest number of units of gear in use at one time. For		
	example, 4 gillnets.		
GEARQTY	The greatest quantity of gear used at any one time. For example,		
	4,000 square yards gill nets or 10,000 hooks.		

YEAR	The year in which the vessel fished with these operating	
	characteristics.	
STATE	The NMFS state code for the state in which the vessel fished with	
	these operating characteristics.	
COUNTY	NMFS County where the vessel operated.	

With the exception of the columns for CREW, GEARNUM and GEARQTY, most values will already be filled in.

File Completion Protocol

1) Remove Duplicate Vessels

Sort your list by vessel ID number and look for duplicate vessels. It is normal for distinct vessels to appear more than once in your file if they fished with different gears, or landed in different counties in your area during the year. Do not remove these duplications. However, it is possible that duplicate vessels where there is no difference between the records may be inadvertently included in your file. In this case, delete the duplicate. Because duplication may be caused by a data entry error in the vessel ID number, it is also advisable to sort by vessel name after the first duplicate check has been completed, to see if that results in finding more duplicates. Also note that if a vessel has both as USCG number and a State registration number listed, not not remove the state number from the file.

2) Insert Missing Vessels

While the State Landings data used to generate the initial list is in theory comprehensive, it is possible that vessels that fished in your area during the year in question are not represented. If so, they must be added. There are a few ways to determine if vessels are missing:

- a. Your own local knowledge of vessels operating in your area,
- b. Reviewing your TIP data to make sure all vessel IDs that appear in your interviews for that year also appear in your VOU file,
- c. If in the Gulf, reviewing your GSS data to make sure all vessel IDs that appear in your interviews or landings data for that year also appear in your VOU file.
- d. Requesting a list of vessels from the Pelagic and Coastal Logbook programs

If you do find missing vessels, insert them into your working files and fill in as much of the information as you can from the data available to you. This will likely be the vessel number, name, gear type, State, and County. Again, remember you could add multiple rows for the same vessel if you know they fished multiple gears or landed in multiple counties, etc. in your area. That will leave the physical characteristics and the gear characteristics still to be filled in. In many cases, the physical characteristics of the vessel can be determined by visiting

http://cgmix.uscg.mil/PSIX/PSIXSearch.aspx and entering the vessel number. Any missing physical characteristics should be left blank.

3) Update Incorrect Information

Review the list and if any of the information provided is incorrect, please edit it to the correct value. Most commonly this will be an incorrect gear type or incorrect county, but could also be vessel physical characteristics. Again, this will be based on your knowledge of your area's vessel operations. It is understood that there will likely be vessels on your list that you are not familiar with, and cannot make any judgment as to the provided data's accuracy. Even for vessels you believe you are familiar with, you should proceed with caution and only update information that you are certain is correct.

4) Input Gear Number and Quantity

For vessels that you are familiar with either through dockside interviews or some other source, input known values for Gear Number and Gear Quantity. Use the below guidance in how to report number and quantity based on gear type:

Gear Type	Gear Number	Gear Quantity	
Purse, Haul, Stop Seine,	Number of nets used	Aggregate length of all nets	
Lampara nets		in yards	
Gill and Trammel Nets	Number of nets used	Aggregate area of all nets in	
		square yards	
Otter and Beam Trawls	Number of nets used	Aggregate length of	
		lead/chain lines in yards	
Dredges and Scrapes	Number of dredges used	Aggregate width of toothed	
		or notched bottom of dredge	
		in yards	
Lines of all types (long, set,	Total number of lines used	Maximum number of hooks	
troll, hand, etc.)		used at any one time	
Harpoons	One per vessel	One per vessel	
Traps/Pots (lobster, stone/blue	Maximum number of traps	Leave blank	
crab, fish)	used at any one time		

For vessels that you are not familiar with, please estimate the gear number and quantity by using the estimations for different gear types given in Appendix 1.

5) Update Crew Number

For vessels that you are familiar with either through dockside interviews or some other source, input known values for number of crew, using the guidance that the number should represent the maximum number of crew, even if was for only a single trip out of multiple trips with smaller

crews.

For vessels that you are not familiar with, the number of crew must be estimated. There are several methods used to estimate number of crew:

- a. Assumption based on known gear, location, and physical characteristics. This method can be used if there are a substantial number of vessels on your list for which crew size is known. Use the number of crew known for these vessels to fill in unknown values for vessels with the same county, length, and gear type.
- b. Assumption based on known landings and gear type. This method can be used where landings of individual vessels are known and a substantial number of vessels have existing crew size. Use the number of crew known for these vessels to fill in unknown values for vessels with similar per-trip landings and gear type.
- c. Assumption based on provided tables. In some areas tables have been developed based on empirical data. This method is similar to a and b above but rather than being derived from narrow temporal and spatial strata, they are derived over many years and for larger regions. See appendix 1 for an example from the Gulf of Mexico.

Whatever method is used, you should employ the method consistently, document fully, and save for reference.

895 Frog grabe (Gig)

SQATS AND SHORE - OPERATING UNITS Generalized Average Conversion Formulas for Assistance

020 Seine, fish Avg 2 per boat, 300 L yds each : Avg I at 100 L yde each 030 Seine, long 145 Seine, purse other Avg 1 at 400 L year (1 gear per license) Avg 2 per hoat, 11' across each (3.67 yds) 169 Butterily net (1 gear per license) 1-2 per Bost. 1 40' avg div by 3-13.33 yde 215 Trawl, shriwp (1 geer per licence) 310 Hoop net Avg 4 per bost Avg 150 traps (range 100-350) 330 Creb treps Avg 25 340 Pota/traps, esl; 345 Fets/treps, tish : Avg. 40-50 (Slat traps) 379 Pots/traps, other Avg 12 (Hippora) 387 Pote eacl. (Cens) Avg 40-50 425 Gill net, other 4-5, 50' Long X 3' high div by 9 ad It-17 ag yda 475 Gill men, rungressed 1200' % 5 div by 9-800 sq yds % * geer div 100. 350' long X 4.5' high div by 9 ag. It=175 ag yda 536 Tranmel net X # Hear. 510 Nend 11mg 17 hooks such & # gear 660 Troll line 1 book wach X & goer (range 2-8) Avg 12-15 lines, 17 hooks each 675 Longline set top. 576 Longlide set bottom Avg 12-15 lines, 17 hooks wach 677 Longline, sharks Avg 12-15 lines, 17 hooks such 735. Capt not 1 per person 760 Spears (Gigs) 1 per person 815 Orenige, cycter Avg 1 per bost (range 1-2) (1 gear per linense) 840 Tongs, oyster 1 per person (1 gear per license)

YESSEL ADDITIONS GEAR CODE 215 pr 189

Vessel greater than 50'	100 div 3 = 33 yds or 50 div 3 = 17 yds
Vessel 31' - 50'	1 or 2 orew, 1 or 2 40' trawls 40 div 3 × 13 yds or 80 div 2 = 27 yds
Vessel under 30'	1 ores, 1 40' - 45' travl 40 div 3 = 13 yd= or 45 div 3 = 15 yd=
일다"라 함께 얼마나를 걸다던데 그	Avg would be 1 40' trevl (13 yds)

1 per perebn

Appendix 2

Gear	Gear Name	Crew
Code		Number
189	Butterfly Net	2
192	Skimmer Trawl	2
310	Hoop/Fyke	1
315	Hoop/Fyke, Turtle	1
330	Pots and Traps, Crab	1
390	Slat Traps	2
425	Gillnets, Stake	2
530	Trammel Nets	2
610	Hand Lines	1
611	Rod and Reel	1
665	Troll Lines	1
680	Trot Lines	2
703	Dip Nets	1
735	Cast Nets	1
815	Oyster Dredge	1
840	Oyster Tongs	1
968	Cans/Buckets/Drums	2
125	Menhaden	15
215	Shrimp trawl (vessel	1
	<30')	
215	Shrimp trawl (vessel 31'-	2
	50')	
215	Shrimp trawl	3
	(vessel>50')	